

What Is Claimed Is:

- Sata 17
1. A hair removal device comprising:
    - (a) a housing; and
    - (b) a hair-plucking assembly having at least two groups of disc assemblies mounted within said housing.
  2. The hair removal device of claim 1, wherein said disc assemblies are arranged in at least two rows.
  3. The hair removal device of claim 1, wherein said rows are adjacent to one another.
  4. The hair removal device of claim 3, wherein said rows are parallel to one another.
  5. The hair removal device of claim 2, wherein said disc assemblies arranged in one row are rotationally fixed with respect to one another.
  6. The hair removal device of claim 1, wherein said disc assemblies rotate at a constant speed.
  7. The hair removal device of claim 1, wherein said disc assemblies are identical.
  8. The hair removal device of claim 1, wherein each said disc assembly comprises an internal disc assembly.
  9. The hair removal device of claim 8, wherein said internal disc assembly comprises an insert disc, having at least one arm, mounted on a disc carrier.
  10. The hair removal device of claim 9, wherein said disc assembly comprises a pair of outer discs, each having at least one arm, pressed against said arm(s) of said internal disc to form traps for hair.

- 5                    11. The hair removal device of claim 10, wherein said disc carrier comprises at least one U-shaped member for engaging at least one arm of each of said pair of outer discs so as to impart rotational motion to said pair of outer discs upon rotation of said internal disc assembly about an axis of said internal disc assembly.
- 10                  12. The hair removal device of claim 11, wherein said disc carrier further comprises at least a pair of pinchers that extend axially from said U-shaped member(s) beyond the plane of said arm(s) of each of said pair of outer discs for imparting a clamping force on at least one adjacent disc carrier.
- 15                  13. The hair removal device of claim 12, wherein said disc carrier further comprises engagement means for engaging at least one adjacent disc carrier so that rotational movement of one disc carrier imparts rotational motion to at least one adjacent disc carrier.
- 20                  14. The hair removal device of claim 13, wherein said engagement means comprises engagement protrusions and engagement recessions for engaging corresponding engagement protrusions and recessions of at least one adjacent disc carrier.
- 25                  15. The hair removal device of claim 1, wherein said disc assemblies are rotatably mounted on two shafts.
- 30                  16. The hair removal device of claim 15, wherein said shafts are curved such that said disc assemblies are mounted in an inclined angle.
- 35                  17. The hair removal device of claim 9, wherein said disc carrier is made of Acetal plastic.
18. The hair removal device of claim 10, wherein said insert disc and said pair of outer discs are made of stainless steel.
19. A hair removal device comprising:  
(a) a housing;  
(b) a hair-plucking assembly; and

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(c) a vibration assembly mounted within said housing.

20. The hair removal device of claim 19, wherein said vibration assembly comprises a vibration element to massage the hair removal area.

21. The hair removal device of claim 20, wherein said vibration element is rotatably mounted on eccentric cylinders.

22. The hair removal device of claim 20, wherein said vibration element vibrates at a constant speed.

23. The hair removal device of claim 19, wherein said housing comprises brackets for mounting said hair-plucking assembly and said vibration assembly to said housing.

24. The hair removal device of claim 20, wherein said vibration element is located adjacent to said hair-plucking assembly.

25. The hair removal device of claim 20, wherein said vibration element moves towards and away from said hair-plucking assembly.

26. The hair removal device of claim 20, wherein said vibration element spans at least the width of said hair-plucking assembly.

27. The hair removal device of claim 19, wherein said hair-plucking assembly comprises disc assemblies arranged in at least two rows.

28. The hair removal device of claim 27, wherein said vibration element is located in between said rows of disc assemblies.

29. The hair removal device of claim 19, wherein said hair-plucking assembly and said vibration assembly are powered by a driving assembly.

30. A hair removal device comprising:  
(a) a housing;

- (b) a hair-plucking assembly having at least two groups of disc assemblies mounted within said housing; and  
(c) a vibration assembly mounted within said housing.

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